

**Table 41 (page 1 of 2). Death rates for malignant neoplasm of breast for females, according to race, Hispanic origin, and age: United States, selected years 1950–99**

[Data are based on the National Vital Statistics System]

<i>Race, Hispanic origin, and age</i>	<i>1950<sup>1</sup></i>	<i>1960<sup>1</sup></i>	<i>1970</i>	<i>1980</i>	<i>1990</i>	<i>1995</i>	<i>1996</i>	<i>1997</i>	<i>1998</i>	<i>Comparability modified 1998<sup>2</sup></i>	<i>1999<sup>3</sup></i>
Deaths per 100,000 resident population											
All persons											
All ages, age adjusted . . . . .	31.9	31.7	32.1	31.9	33.3	30.8	29.8	28.6	27.9	28.1	27.0
All ages, crude . . . . .	24.7	26.1	28.4	30.6	34.0	32.6	31.8	30.7	30.2	30.4	29.5
Under 25 years . . . . .	*	*	*	*	*	*	0.0	*	*	*	*
25–34 years . . . . .	3.8	3.8	3.9	3.3	2.9	2.7	2.7	2.6	2.6	2.6	2.3
35–44 years . . . . .	20.8	20.2	20.4	17.9	17.8	15.0	14.2	14.0	13.4	13.5	12.1
45–54 years . . . . .	46.9	51.4	52.6	48.1	45.4	41.4	38.8	37.8	35.8	36.0	33.5
55–64 years . . . . .	69.9	70.8	77.6	80.5	78.6	69.8	67.4	64.4	62.2	62.5	59.9
65–74 years . . . . .	95.0	90.0	93.8	101.1	111.7	103.3	99.1	94.1	93.3	93.8	89.9
75–84 years . . . . .	139.8	129.9	127.4	126.4	146.3	142.0	139.8	132.2	131.4	132.1	131.3
85 years and over . . . . .	195.5	191.9	157.1	169.3	196.8	203.7	204.9	198.5	194.7	195.8	202.6
White											
All ages, age adjusted . . . . .	32.4	32.0	32.5	32.1	33.2	30.4	29.4	28.0	27.3	27.5	26.4
All ages, crude . . . . .	25.7	27.2	29.9	32.3	35.9	34.1	33.3	31.9	31.5	31.7	30.7
35–44 years . . . . .	20.8	19.7	20.2	17.3	17.1	14.1	12.9	12.9	12.2	12.3	10.8
45–54 years . . . . .	47.1	51.2	53.0	48.1	44.3	39.2	36.9	36.1	33.8	34.0	31.4
55–64 years . . . . .	70.9	71.8	79.3	81.3	78.5	68.7	67.2	62.8	60.7	61.0	58.1
65–74 years . . . . .	96.3	91.6	95.9	103.7	113.3	103.9	99.8	93.6	94.1	94.6	89.9
75–84 years . . . . .	143.6	132.8	129.6	128.4	148.2	143.0	140.6	132.3	132.2	132.9	131.7
85 years and over . . . . .	204.2	199.7	161.9	171.7	198.0	205.9	207.1	199.9	196.4	197.5	205.0
Black											
All ages, age adjusted . . . . .	25.3	27.9	28.9	31.7	38.1	38.3	37.3	37.7	35.7	35.9	35.6
All ages, crude . . . . .	16.4	18.7	19.7	22.9	29.0	30.2	29.9	30.4	29.2	29.4	29.3
35–44 years . . . . .	21.0	24.8	24.4	24.1	25.8	23.1	24.6	23.1	23.0	23.1	21.9
45–54 years . . . . .	46.5	54.4	52.0	52.7	60.5	62.6	59.1	56.4	55.7	56.0	54.0
55–64 years . . . . .	64.3	63.2	64.7	79.9	93.1	88.8	82.9	88.1	82.1	82.6	81.7
65–74 years . . . . .	67.0	72.3	77.3	84.3	112.2	117.3	109.9	117.7	104.9	105.5	105.5
75–84 years <sup>4</sup> . . . . .	81.0	87.5	101.8	114.1	140.5	151.6	152.9	154.0	146.5	147.3	152.0
85 years and over . . . . .	---	92.1	112.1	149.9	201.5	198.6	206.9	211.2	206.6	207.8	205.9
American Indian or Alaska Native <sup>5</sup>											
All ages, age adjusted . . . . .	---	---	---	10.8	13.7	14.6	17.8	13.1	14.2	14.3	15.4
All ages, crude . . . . .	---	---	---	6.1	8.6	9.8	12.1	9.0	10.1	10.2	10.7
35–44 years . . . . .	---	---	---	*	*	*	*	*	*	*	*
45–54 years . . . . .	---	---	---	*	23.9	24.0	28.0	19.6	21.2	21.3	19.6
55–64 years . . . . .	---	---	---	*	*	39.1	43.9	32.9	38.2	38.4	35.7
65–74 years . . . . .	---	---	---	*	*	45.4	66.0	48.2	42.8	43.0	70.3
75–84 years . . . . .	---	---	---	*	*	*	*	*	*	*	*
85 years and over . . . . .	---	---	---	*	*	*	*	*	*	*	*
Asian or Pacific Islander <sup>6</sup>											
All ages, age adjusted . . . . .	---	---	---	11.9	13.7	14.6	12.4	12.6	13.1	13.2	13.1
All ages, crude . . . . .	---	---	---	8.2	9.3	11.1	9.6	9.9	10.6	10.7	10.4
35–44 years . . . . .	---	---	---	10.4	8.4	8.3	8.8	8.2	7.8	7.8	6.6
45–54 years . . . . .	---	---	---	23.4	26.4	30.2	22.0	23.2	22.9	23.0	20.9
55–64 years . . . . .	---	---	---	35.7	33.8	39.4	23.0	33.1	40.0	40.2	38.7
65–74 years . . . . .	---	---	---	*	38.5	37.4	40.2	34.1	35.0	35.2	38.7
75–84 years . . . . .	---	---	---	*	48.0	44.9	51.0	40.6	42.3	42.5	45.3
85 years and over . . . . .	---	---	---	*	*	*	*	68.8	54.3	54.6	71.5
Hispanic <sup>7</sup>											
All ages, age adjusted . . . . .	---	---	---	---	19.5	18.1	18.4	17.8	16.8	16.9	15.4
All ages, crude . . . . .	---	---	---	---	11.5	10.9	11.4	11.2	10.7	10.8	9.9
35–44 years . . . . .	---	---	---	---	11.7	9.7	11.0	9.9	9.8	9.9	8.5
45–54 years . . . . .	---	---	---	---	32.8	27.7	27.4	26.7	25.3	25.4	24.1
55–64 years . . . . .	---	---	---	---	45.8	43.8	39.7	45.4	43.1	43.3	35.3
65–74 years . . . . .	---	---	---	---	64.8	55.7	56.5	52.9	54.7	55.0	46.3
75–84 years . . . . .	---	---	---	---	67.2	75.5	85.6	71.6	63.6	64.0	63.4
85 years and over . . . . .	---	---	---	---	102.8	105.4	104.5	101.9	85.9	86.4	97.9

See footnotes at end of table.

**Table 41 (page 2 of 2). Death rates for malignant neoplasm of breast for females, according to race, Hispanic origin, and age: United States, selected years 1950–99**

[Data are based on the National Vital Statistics System]

<i>Race, Hispanic origin, and age</i>	1950 <sup>1</sup>	1960 <sup>1</sup>	1970	1980	1990	1995	1996	1997	1998	<i>Comparability modified 1998<sup>2</sup></i>	1999 <sup>3</sup>
White, non-Hispanic <sup>7</sup>											
Deaths per 100,000 resident population											
All ages, age adjusted . . . . .	---	---	---	---	33.9	30.9	29.9	28.5	27.9	28.1	27.0
All ages, crude . . . . .	---	---	---	---	38.5	36.8	35.9	34.4	34.2	34.4	33.5
35–44 years . . . . .	---	---	---	---	17.5	14.4	12.9	13.1	12.4	12.5	11.0
45–54 years . . . . .	---	---	---	---	45.2	39.9	37.5	36.7	34.4	34.6	31.9
55–64 years . . . . .	---	---	---	---	80.6	70.2	69.0	63.8	61.7	62.0	59.7
65–74 years . . . . .	---	---	---	---	115.7	106.2	102.0	95.7	96.3	96.8	92.6
75–84 years . . . . .	---	---	---	---	151.4	145.2	142.6	134.4	135.0	135.8	134.5
85 years and over . . . . .	---	---	---	---	201.5	208.3	211.7	203.3	200.6	201.7	209.2

\* Based on fewer than 20 deaths.

0.0 Quantity more than zero but less than 0.05.

--- Data not available.

<sup>1</sup>Includes deaths of persons who were not residents of the 50 States and the District of Columbia.

<sup>2</sup>Calculated by multiplying the 1998 rate by its comparability ratio to adjust for differences between ICD–9 and ICD–10. See Appendix II, Comparability ratio and table VI.

<sup>3</sup>Starting with 1999 data, cause of death is coded according to ICD–10. To estimate change between 1998 and 1999, compare the 1999 rate with the comparability-modified rate for 1998. See Appendix II, Comparability ratio and tables V and VI.

<sup>4</sup>In 1950 rate is for the age group 75 years and over.

<sup>5</sup>Interpretation of trends should take into account that population estimates for American Indians increased by 45 percent between 1980 and 1990, partly due to better enumeration techniques in the 1990 decennial census and to the increased tendency for people to identify themselves as American Indian in 1990.

<sup>6</sup>Interpretation of trends should take into account that the Asian population in the United States more than doubled between 1980 and 1990, primarily due to immigration.

<sup>7</sup>Excludes data from States lacking an Hispanic-origin item on their death certificates. See Appendix I, National Vital Statistics System.

NOTES: Age-adjusted rates for all years differ from those shown in previous editions of *Health, United States*. Age-adjusted rates are calculated using the year 2000 standard population starting with *Health, United States, 2001*. See Appendix II, Age adjustment. For data years shown, code numbers for cause of death are based on the then current revision of the *International Classification of Diseases* (ICD). See Appendix II, tables IV and V. Age groups were selected to minimize the presentation of unstable age-specific death rates based on small numbers of deaths and for consistency among comparison groups. The race groups, white, black, Asian or Pacific Islander, and American Indian or Alaska Native, include persons of Hispanic and non-Hispanic origin. Conversely, persons of Hispanic origin may be of any race. Bias in death rates results from inconsistent race identification between the death certificate (source of data for numerator of death rates) and data from the Census Bureau (denominator); and from undercounts of some population groups in the census. The net effects of misclassification and under coverage result in death rates estimated to be overstated by 1 percent for the white population and 5 percent for the black population; and death rates estimated to be understated by 21 percent for American Indians, 11 percent for Asians, and 2 percent for Hispanics (Rosenberg HM, Maurer JD, Sorlie PD, Johnson NJ, et al. Quality of death rates by race and Hispanic origin: A summary of current research, 1999. National Center for Health Statistics. Vital Health Stat 2(128). 1999). Some rates for all persons in 1950 and for Hispanic and non-Hispanic white for 1985 (and 1986–89, 1991 available electronically) were revised and differ from the previous edition of *Health, United States*. Data for additional years are available (see Appendix III).

SOURCES: Centers for Disease Control and Prevention, National Center for Health Statistics. *Vital statistics of the United States, vol II, mortality, part A*, for data years 1950–93. Public Health Service. Washington: U.S. Government Printing Office; for 1994–99, data for all persons, white, and black are available on the NCHS Web site at [www.cdc.gov/nchs/datawh/statab/unpubd/mortabs.htm](http://www.cdc.gov/nchs/datawh/statab/unpubd/mortabs.htm); numerator data from National Vital Statistics System, annual mortality files; denominator data from national population estimates for race groups from table 1 and unpublished Hispanic population estimates prepared by the Housing and Household Economic Statistics Division, U.S. Bureau of the Census. Hoyert DL, Smith BL, Arias E, Murphy SL. Deaths: Final data for 1999. National vital statistics reports. vol 49 no 8. Hyattsville, Maryland: National Center for Health Statistics. 2001.